

**ADAM17 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP1492a****Specification**

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**ADAM17 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [P78536](#)**ADAM17 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 6868**Other Names**

Disintegrin and metalloproteinase domain-containing protein 17, ADAM 17, Snake venom-like protease, TNF-alpha convertase, TNF-alpha-converting enzyme, CD156b, ADAM17, CSVP, TACE

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP1492a](/product/products/AP1492a) was selected from the N-term region of human ADAM17. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**ADAM17 Antibody (N-term) Blocking Peptide - Protein Information****Name** ADAM17 ([HGNC:195](#))**Synonyms** CSVP, TACE**Function**

Transmembrane metalloprotease which mediates the ectodomain shedding of a myriad of transmembrane proteins including adhesion proteins, growth factor precursors and cytokines important for inflammation and immunity (PubMed:[24226769](http://www.uniprot.org/citations/24226769), PubMed:[24227843](http://www.uniprot.org/citations/24227843), PubMed:[28060820](http://www.uniprot.org/citations/28060820), PubMed:[28923481](http://www.uniprot.org/citations/28923481)). Cleaves the membrane-bound precursor of TNF-alpha to its mature soluble form (PubMed:[36078095](http://www.uniprot.org/citations/36078095), PubMed:[36078095](#)).

[9034191](http://www.uniprot.org/citations/9034191)). Responsible for the proteolytic release of soluble JAM3 from endothelial cells surface (PubMed:[20592283](http://www.uniprot.org/citations/20592283)). Responsible for the proteolytic release of several other cell-surface proteins, including p75 TNF-receptor, interleukin 1 receptor type II, p55 TNF- receptor, transforming growth factor-alpha, L-selectin, growth hormone receptor, MUC1 and the amyloid precursor protein (PubMed:[12441351](http://www.uniprot.org/citations/12441351)). Acts as an activator of Notch pathway by mediating cleavage of Notch, generating the membrane-associated intermediate fragment called Notch extracellular truncation (NEXT) (PubMed:[24226769](http://www.uniprot.org/citations/24226769)). Plays a role in the proteolytic processing of ACE2 (PubMed:[24227843](http://www.uniprot.org/citations/24227843)). Plays a role in hemostasis through shedding of GP1BA, the platelet glycoprotein Ib alpha chain (By similarity). Mediates the proteolytic cleavage of LAG3, leading to release the secreted form of LAG3 (By similarity). Mediates the proteolytic cleavage of IL6R, leading to the release of secreted form of IL6R (PubMed:[26876177](http://www.uniprot.org/citations/26876177)), PubMed:[28060820](http://www.uniprot.org/citations/28060820)). Mediates the proteolytic cleavage and shedding of FCGR3A upon NK cell stimulation, a mechanism that allows for increased NK cell motility and detachment from opsonized target cells. Cleaves TREM2, resulting in shedding of the TREM2 ectodomain (PubMed:[28923481](http://www.uniprot.org/citations/28923481)).

#### **Cellular Location**

Cell membrane; Single-pass type I membrane protein

#### **Tissue Location**

Ubiquitously expressed. Expressed at highest levels in adult heart, placenta, skeletal muscle, pancreas, spleen, thymus, prostate, testes, ovary and small intestine, and in fetal brain, lung, liver and kidney. Expressed in natural killer cells (at protein level) (PubMed:24337742).

### **ADAM17 Antibody (N-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

### **ADAM17 Antibody (N-term) Blocking Peptide - Images**

### **ADAM17 Antibody (N-term) Blocking Peptide - Background**

ADAM17 is a member of the ADAM (a disintegrin and metalloprotease domain) family. Members of this family are membrane-anchored proteins structurally related to snake venom disintegrins, and have been implicated in a variety of biologic processes involving cell-cell and cell-matrix interactions, including fertilization, muscle development, and neurogenesis. ADAM17 functions as a tumor necrosis factor-alpha converting enzyme; binds mitotic arrest deficient 2 protein; and also plays a prominent role in the activation of the Notch signaling pathway.

### **ADAM17 Antibody (N-term) Blocking Peptide - References**

Tellier,E., J. Cell. Physiol. 214 (3), 687-693 (2008)Takamune,Y., Biochem. Biophys. Res. Commun. 365 (2), 393-398 (2008)